**Section: Programming (Advocate: Manish Gadhvi)**

**Provide a definition of what an algorithm is and outline the process in building an application.**

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| **Link:** <https://github.com/LukeShead/Project-02/blob/master/README.md#flowchart>  **Flowchart.**  **Link:** <https://github.com/LukeShead/Glossary-of-Tech-Terms#5-algorythm-> Algorithm |
| Please provide a short (between 3 to 8 well considered, fully proofread and reflected sentences) explanation that justifies why the evidence/links you have provided is suitable as evidence of this requirement |

**Give explanations of what procedural, object orientated and event driven paradigms are; their characteristics and the relationship between them.**

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| **Link:** <https://github.com/LukeShead/Glossary-of-Tech-Terms#6-program-paradigms-> **Program paradigms** |
| Please provide a short (between 3 to 8 well considered, fully proofread and reflected sentences) explanation that justifies why the evidence/links you have provided is suitable as evidence of this requirement |

**Write a program that implements an algorithm using an IDE.**

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| **Link:** <https://github.com/LukeShead/Project-02#the-ide-i-used-was-replit>  **The ide I used** |
| Please provide a short (between 3 to 8 well considered, fully proofread and reflected sentences) explanation that justifies why the evidence/links you have provided is suitable as evidence of this requirement |

**Explain the debugging process and explain the debugging facilities available in the IDE.**

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| **Link:** <https://github.com/LukeShead/Project-02#debugging>  **Debugging section**  **Link:** <https://github.com/LukeShead/Project-03#debugging>  **Debugging section** |
| Please provide a short (between 3 to 8 well considered, fully proofread and reflected sentences) explanation that justifies why the evidence/links you have provided is suitable as evidence of this requirement |

**Outline the coding standard you have used in your code.**

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| **Link:** <https://github.com/LukeShead/Project-01#coding-standards> **Coding Standards**  **Link:** <https://github.com/LukeShead/Project-02#coding-standards-i-use> **Coding Standards section.** |
| Please provide a short (between 3 to 8 well considered, fully proofread and reflected sentences) explanation that justifies why the evidence/links you have provided is suitable as evidence of this requirement |

**Determine the steps taken from writing code to execution.**

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| **Link:** <https://github.com/LukeShead/Glossary-of-Tech-Terms/blob/master/README.md#9-steps-from-writing-to-execution-> Steps. |
| Please provide a short (between 3 to 8 well considered, fully proofread and reflected sentences) explanation that justifies why the evidence/links you have provided is suitable as evidence of this requirement |

**Analyse the common features that a developer has access to in an IDE.**

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| **Link:** <https://github.com/LukeShead/Project-02#coding-standards-i-use> **IDE section,**  **Link:** <https://github.com/LukeShead/Project-02#debugging> **Debugging section,** |
| Please provide a short (between 3 to 8 well considered, fully proofread and reflected sentences) explanation that justifies why the evidence/links you have provided is suitable as evidence of this requirement |

**Use the IDE to manage the development process of the program.**

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| **Link:** <https://github.com/LukeShead/Project-02#the-ide-and-implementation> |
| Please provide a short (between 3 to 8 well considered, fully proofread and reflected sentences) explanation that justifies why the evidence/links you have provided is suitable as evidence of this requirement |

**Evaluate how the debugging process can be used to help develop more secure, robust applications.**

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| **Link:** <https://github.com/LukeShead/Project-02#debugging> **Debugging section.** |
| Please provide a short (between 3 to 8 well considered, fully proofread and reflected sentences) explanation that justifies why the evidence/links you have provided is suitable as evidence of this requirement |

**Examine the implementation of an algorithm in a suitable language. Evaluate the relationship between the written algorithm and the code variant.**

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| **Link** <https://github.com/LukeShead/Project-02#planning-the-project> **Planning the Project section, paragraph 5.** |
| Please provide a short (between 3 to 8 well considered, fully proofread and reflected sentences) explanation that justifies why the evidence/links you have provided is suitable as evidence of this requirement |

**Critically evaluate the source code of an application which implements the programming paradigms, in terms of the code structure and characteristics.**

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| **Link:** <https://github.com/LukeShead/Project-02#planning-the-project> **Planning the Project section, paragraph 4.** |
| Please provide a short (between 3 to 8 well considered, fully proofread and reflected sentences) explanation that justifies why the evidence/links you have provided is suitable as evidence of this requirement |

**Evaluate the use of an IDE for development of applications contrasted with not using an IDE.**

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| **Link:** <https://github.com/LukeShead/Project-01#the-ide-i-used-to-design-this-product-is-the-original-notepad>  **Link:** <https://github.com/LukeShead/Project-01#debugging> |
| Please provide a short (between 3 to 8 well considered, fully proofread and reflected sentences) explanation that justifies why the evidence/links you have provided is suitable as evidence of this requirement |

**Critically evaluate why a coding standard is necessary in a team as well as for the individual.**

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| **Link:** [**https://github.com/LukeShead/Project-01/blob/master/README.md**](https://github.com/LukeShead/Project-01/blob/master/README.md) **Coding standards section.**  **Link:** <https://github.com/LukeShead/Project-02#coding-standards-i-use> **Coding standards.** |
| Please provide a short (between 3 to 8 well considered, fully proofread and reflected sentences) explanation that justifies why the evidence/links you have provided is suitable as evidence of this requirement |